

Submersible pumps

-  Filthy water
-  Domestic use
-  Civil use
-  Industrial use



PERFORMANCE RANGE

- Flow rate up to **650 l/min** (39 m³/h)
- Head up to **14 m**

APPLICATION LIMITS

- **5 m** maximum immersion depth (with a sufficiently long power cable)
- Maximum liquid temperature **+40 °C**
- Passage of solids:
 - up to **Ø 40 mm** for VX /35-N
 - up to **Ø 50 mm** for VX /50-N
- Minimum immersion depth for continuous service:
 - **280 mm** for VX /35-N
 - **300 mm** for VX /50-N

CONSTRUCTION AND SAFETY STANDARDS

- Power cable length:
 - **5 m** for VX8-10/35-N, VX8-10/50-N
 - **10 m** for VX15/35-N, VX15/50-N
- Float switch for single-phase versions

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3



INSTALLATION AND USE

VX pumps are recommended for domestic, civil and industrial applications in all cases where the water contains suspended solids up to Ø 50 mm, for example **groundwater, surface water, filthy and dirty water**.

They are for example suitable for draining flooded areas such as cellars, underground car parks, car washes, for emptying cesspools and for sewage disposal.

These pumps distinguish themselves for their reliability, which can be best appreciated under automatic operating conditions in fixed installations.

PATENTS - TRADE MARKS - MODELS

- Patent Pending n. BO2015A000116

OPTIONS AVAILABLE ON REQUEST

- VX8-10 pumps with a **10 m** power cable.
 - ➡ N.B.: Standard EN 60335-2-41 states that the power cable must be 10 m long for outdoor applications
- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency

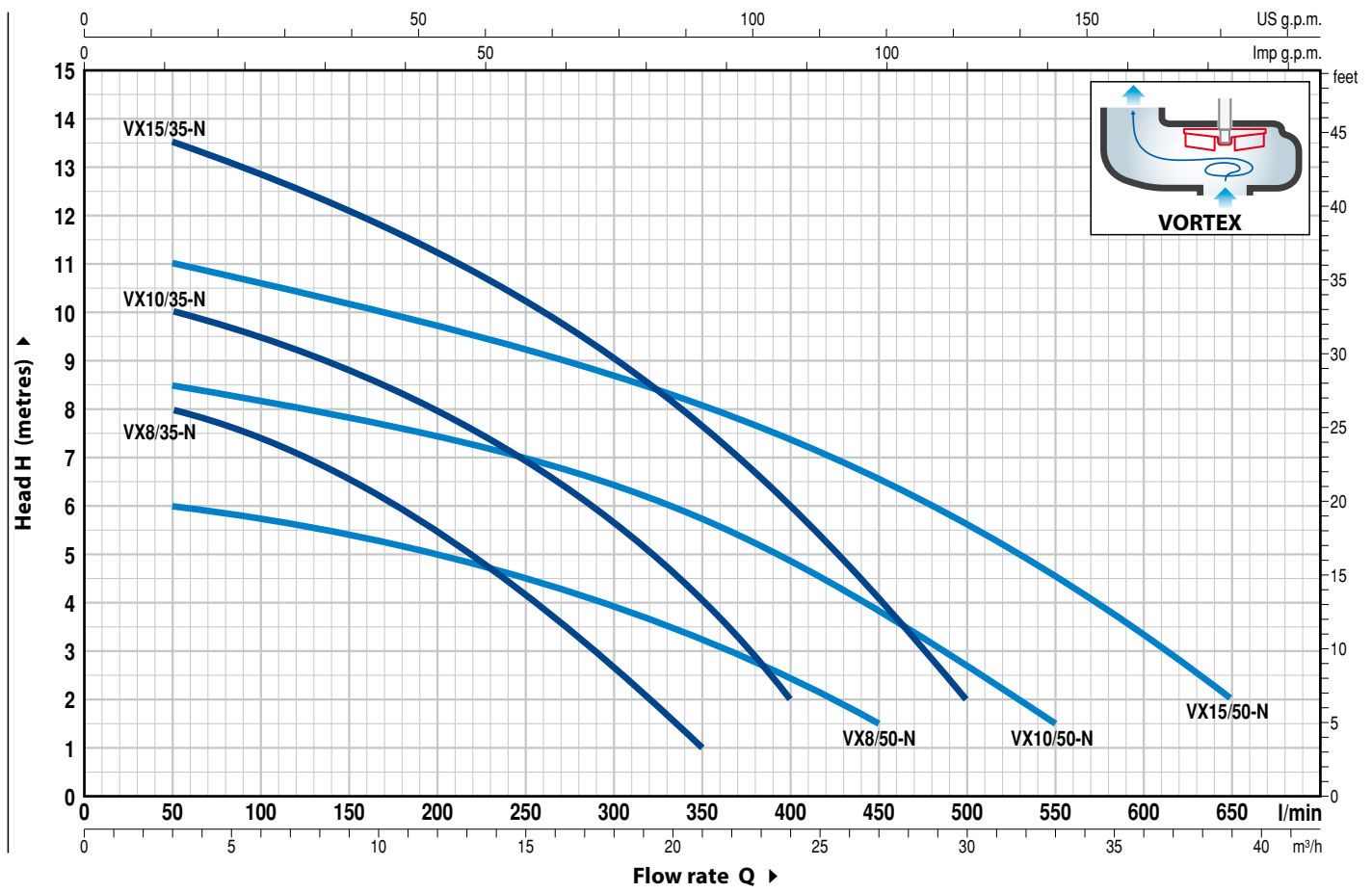
CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY
ISO 14001: ENVIRONMENT



CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 rpm



MODEL		POWER (P ₂)		Q	H metres												
Single-phase	Three-phase	kW	HP		m ³ /h	0	3	6	12	18	21	24	27	30	33	36	39
				l/min	0	50	100	200	300	350	400	450	500	550	600	650	
VXm 8/35 -N	VX 8/35 -N	0.55	0.75		9	8	7.5	5.5	2.7	1							
VXm 10/35-N	VX 10/35 -N	0.75	1		11	10	9.5	8	5.7	4	2						
VXm 15/35-N	VX 15/35 -N	1.1	1.5		14	13.5	12.8	11.2	9	7.7	6	4	2				
VXm 8/50 -N	VX 8/50 -N	0.55	0.75		6.5	6	5.8	5	4	3.3	2.5	1.5					
VXm 10/50-N	VX 10/50 -N	0.75	1		9	8.5	8.2	7.5	6.5	5.8	5	3.8	2.5	1.5			
VXm 15/50-N	VX 15/50 -N	1.1	1.5		11.5	11	10.5	9.8	8.7	8	7.5	6.5	5.5	4.5	3.5	2	

Q = Flow rate H = Total manometric head

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

POS. COMPONENT CONSTRUCTION CHARACTERISTICS

1 PUMP BODY	Cast iron with an Epoxy Electro Coating treatment, with threaded port in compliance with ISO 228/1
2 BASE	Stainless steel AISI 304
3 IMPELLER	Stainless steel AISI 304 VORTEX type
4 MOTOR CASING	Stainless steel AISI 304
5 MOTOR CASING PLATE	Stainless steel AISI 304
6 MOTOR SHAFT	Stainless steel EN 10088-3 - 1.4104

7 SHAFT WITH DOUBLE MECHANICAL SEAL SEPARATED BY AN OIL CHAMBER

<i>Seal Model</i>	<i>Shaft Diameter</i>	<i>Position</i>	<i>Materials</i>		
			<i>Stationary ring</i>	<i>Rotational ring</i>	<i>Elastomer</i>
MG1-14D SIC	Ø 14 mm	Motor side	Silicon carbide	Graphite	NBR
		Pump side	Silicon carbide	Silicon carbide	NBR

8 BEARINGS 6203 ZZ / 6203 ZZ

9 CAPACITOR

<i>Pump</i>	<i>Capacitance</i>	
<i>Single-phase</i>	<i>(230 V or 240 V)</i>	<i>(110 V)</i>
VXm 8/35-N	20 µF 450 VL	30 µF - 250 VL
VXm 8/50-N		
VXm 10/35-N		
VXm 10/50-N	25 µF 450 VL	-
VXm 15/35-N		
VXm 15/50-N		

10 ELECTRIC MOTOR

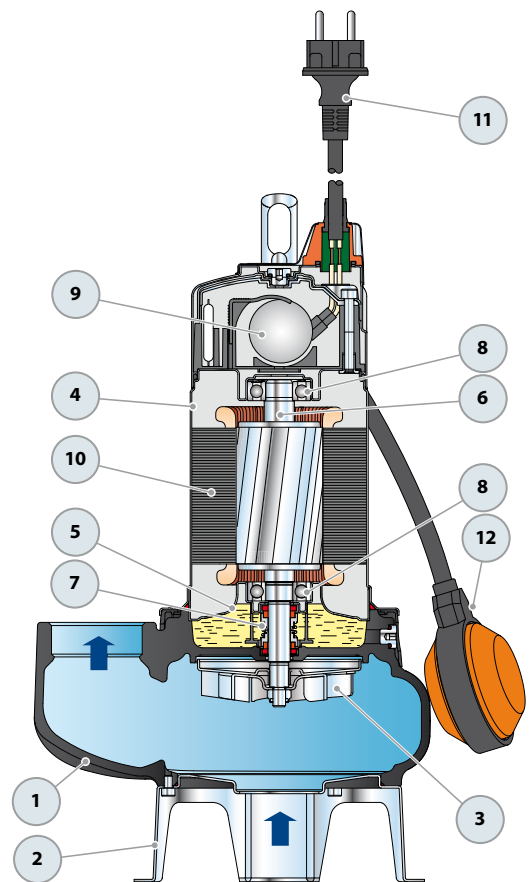
VXm: single-phase 230 V - 50 Hz
with thermal overload protector incorporated into the winding
VX: three-phase 400 V - 50 Hz
– Insulation: class F
– Protection: IP X8

11 POWER CABLE

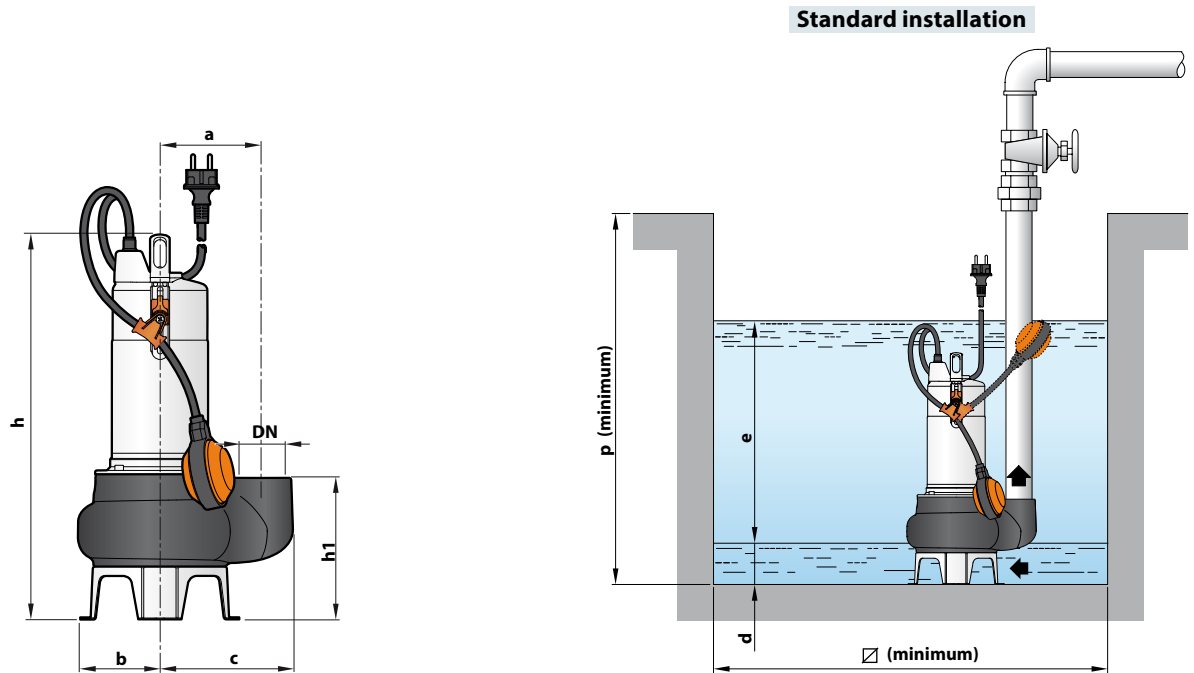
“H07 RN-F” type
(with Schuko plug for single-phase versions only)
Standard length 5 metres (10 metres for VX15/35-50)

12 FLOAT SWITCH

(only for single-phase versions)



DIMENSIONS AND WEIGHT



MODEL		PORT DN	Passage of solids	DIMENSIONS mm									kg			
Single-phase	Three-phase			a	b	c	h	h1	d	e	p	∅	1~	3~		
VXm 8/35 -N	VX 8/35 -N	1½"	Ø 40 mm	115	95	148	406	139	50	variable	500	500	12.9	12.6		
VXm 10/35 -N	VX 10/35 -N						421						13.7	12.6		
VXm 15/35 -N	VX 15/35 -N						421						15.7	14.7		
VXm 8/50 -N	VX 8/50 -N	2"	Ø 50 mm			155	431	164	60				13.4	13.1		
VXm 10/50 -N	VX 10/50 -N						446								14.2	13.1
VXm 15/50 -N	VX 15/50 -N						446								16.2	15.2

ABSORPTION

MODEL	VOLTAGE		
	230 V	240 V	110 V
Single-phase	230 V	240 V	110 V
VXm 8/35 -N	3.5 A	3.4 A	7.0 A
VXm 10/35 -N	4.8 A	4.6 A	9.6 A
VXm 15/35 -N	7.4 A	7.1 A	-
VXm 8/50 -N	3.7 A	3.5 A	7.4 A
VXm 10/50 -N	5.0 A	4.8 A	10.0 A
VXm 15/50 -N	7.1 A	6.8 A	-

MODEL	VOLTAGE			
	230 V	400 V	240 V	415 V
Three-phase	230 V	400 V	240 V	415 V
VX 8/35 -N	3.0 A	1.7 A	2.9 A	1.65 A
VX 10/35 -N	3.5 A	2.0 A	3.4 A	1.95 A
VX 15/35 -N	5.2 A	3.0 A	5.0 A	2.9 A
VX 8/50 -N	3.2 A	1.8 A	3.1 A	1.75 A
VX 10/50 -N	3.5 A	2.0 A	3.4 A	1.95 A
VX 15/50 -N	5.2 A	3.0 A	5.0 A	2.9 A

PALLETIZATION

MODEL		GROUPAGE n. pumps	CONTAINER n. pumps
Single-phase	Three-phase		
VXm 8/35 -N	VX 8/35 -N	60	80
VXm 10/35 -N	VX 10/35 -N	60	80
VXm 15/35 -N	VX 15/35 -N	54	72
VXm 8/50 -N	VX 8/50 -N	54	72
VXm 10/50 -N	VX 10/50 -N	54	72
VXm 15/50 -N	VX 15/50 -N	54	72